



RIDOT TMC Incident Statistics 10/1/2010 To 12/31/2010

The Rhode Island transportation system serves 39 cities and towns, encompassing rural, metropolitan, and tourist areas. The Rhode Island Department of Transportation's Transportation Management Center (RIDOT TMC) has been addressing the problem of increasing congestion in Rhode Island by informing the traveler of crashes and unusual delays. In doing so, the TMC has provided measurable benefits to the transportation system, and has developed the technology and institutional awareness necessary to expand the Intelligent Transportation Systems (ITS) Program (called RhodeWays) to the benefit of Rhode Island travelers.

The RIDOT TMC maintains detailed statistics on incidents that we manage from our center. Because the data are entered by our TMC Operators, the statistics are dependent on what we can observe on the roadways with our equipment. Review and compilation of these statistics is done quarterly. By making these statistics available to you, we hope that you can learn more about the program and understand the benefit of the services we provide to the Rhode Island motoring public.

The types of incidents tabulated in this report include disabled vehicles, debris on the roadway, emergency roadwork, vehicle accidents, and vehicle rollovers. Additionally, a category exists for congestion delays that are outside of typical recurring congestion. The TMC does assist in information dissemination for planned events (such as construction) as well, but those types of events are not included in the statistics. Also, abandoned vehicles are not included since they tend to skew the statistics.

We hope you find this report interesting and that it helps in understanding the significant benefit that the RhodeWays program provides to the people who travel Rhode Island's roadways every day. Also, please remember to check the TMC website frequently for updates (<http://www.tmc.state.ri.us>), including construction and incident information.

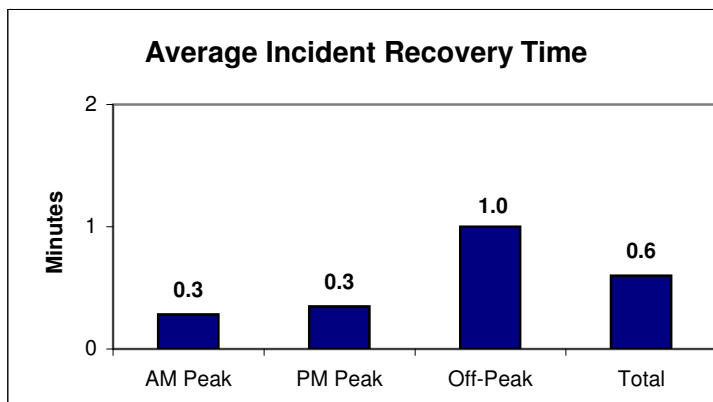
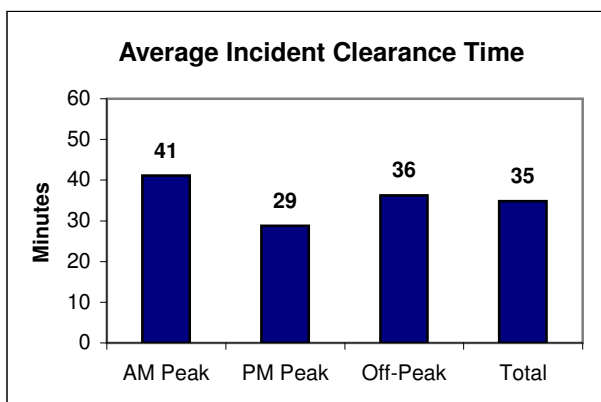
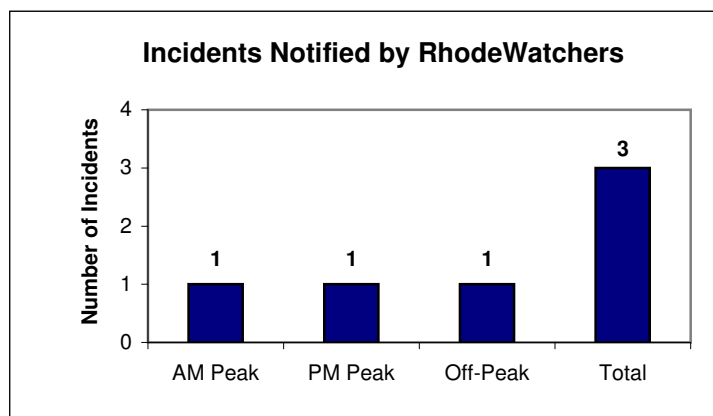
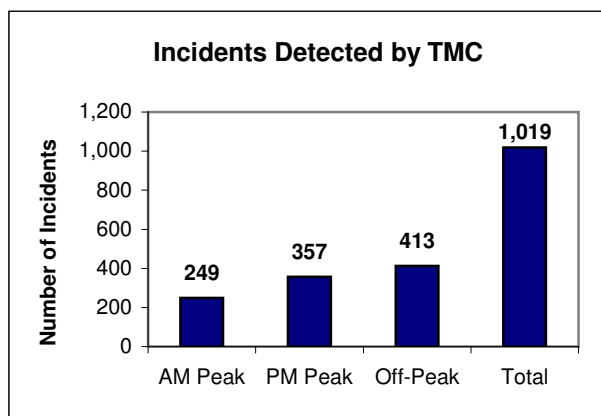
RIDOT TMC Incident Statistics Report

1. Peak Period Incident Statistics*

	AM Peak	PM Peak	Off-Peak	Total
Number of Incidents	254	362	431	1047
Avg. Incident Duration (min)	41	29	37	35
Avg. Incident Clearance Time (min)	41	29	36	35
Avg. Incident Recovery Time (min)	0	0	1	1
# Detected by TMC Operators (CCVE)	114	128	118	360
# Detected by TMC, State Police	135	229	295	659
# Notified by RhodeWatchers	1	1	1	3
# of Messages Posted VMS	16	19	38	73
# of Messages Posted DMS	78	108	139	325
# of Messages Posted HAR	46	30	47	123
# of Messages posted Web	229	339	367	935
Avg. Delay Cost**	\$175,062	\$123,207	\$157,501	\$149,904
Total Delay Cost	\$44,465,738	\$44,601,090	\$67,883,004	\$156,949,832

* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday

** Delay Cost is a function of incident duration, volume on the roadway, delay per person, and cost per hour of delay for both commercial and personal vehicles. Average delay cost includes only incidents with a lane blockage and represents average cost per incident.



Note: Statistics in this report are only for incidents that the TMC reported or responded to. They do not include all incidents that occurred on Rhode Island roadways

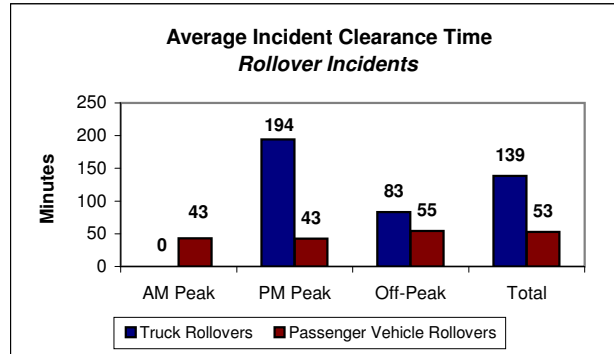
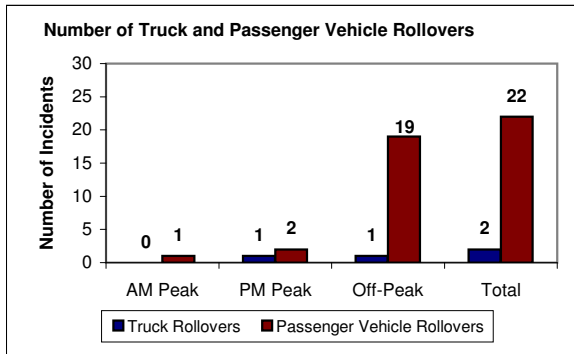
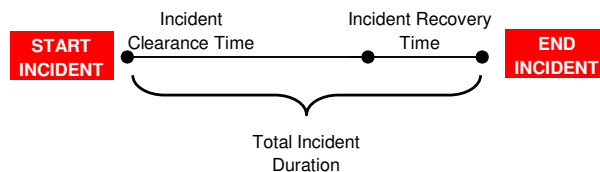
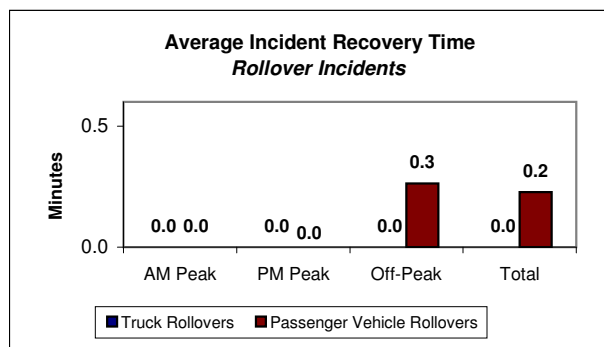
Incident Clearance Time is the time from the start of an incident (or when it is detected) to the time it is cleared from the roadway.

Incident Recovery Time is the time it takes for the roadway to be rid of residual delay following incident clearance. It is based on TMC Operator observation.

2. Rollover Incident Statistics*

VEHICLES	Trucks				Automobiles			
	AM Peak	PM Peak	Off-Peak	Total	AM Peak	PM Peak	Off-Peak	Total
No. of Rollovers	0	1	1	2	1	2	19	22
Avg. Incident Duration (min)	0	194	83	139	43	43	55	53
Avg. Incident Clearance Time (min)	0	194	83	139	43	43	55	53
Avg. Incident Recovery Time (min)	0	0	0	0	0	0	0	0

* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday

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3. Incidents by Severity Level

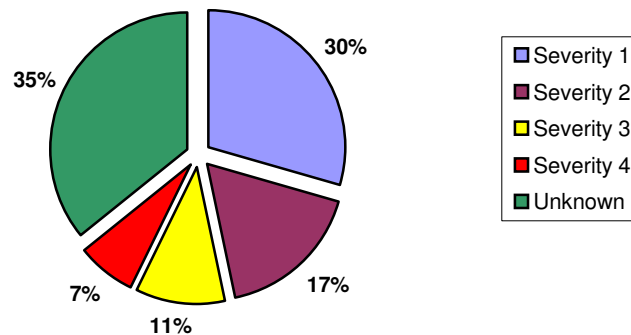
Severity Level*	No. of Incidents
Severity 0	438
Severity 1	180
Severity 2	104
Severity 3	65
Severity 4	42
Unknown	218
Total	1047

Number of Incidents with a Secondary Incident:

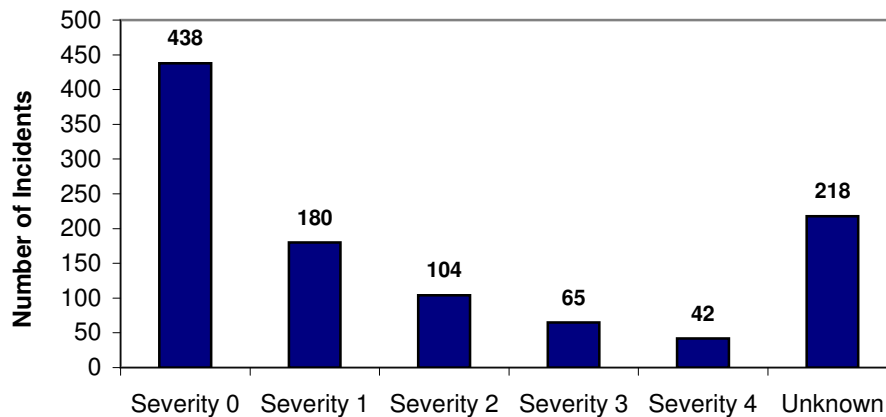
Percentage of Incidents with a Secondary Incident:

Note: A "secondary" incident is one that is the result of an earlier incident.

Percent of Incidents by Severity Level



Number of Incidents by Severity Level



*Definition of Incident Severity Levels:

Severity 0: No injuries and no travel lanes blocked

Severity 1: 1/4+ travel lanes blocked with no injuries OR median/shoulder closed with injuries

Severity 2: 1/3 or 2/4+ lanes blocked OR Fire w/ 0 lanes closed OR hazardous materials (HAZMAT) w/ 0 lanes closed

Severity 3: 1/2 or 2/3 or 3/4+ lanes blocked OR Fire w/ 1/3 or 2/4 lanes closed OR

Hazmat w/ 2/4 lanes closed

Severity 4: All travel lanes blocked OR fatality OR Hazmat w/ clean-up OR Fire w/ 1/2, 2/3, 3/4 lanes closed

OR Structural damage w/ 1/3, 2/3+ lanes closed

Unknown: Incidents without a recorded severity level

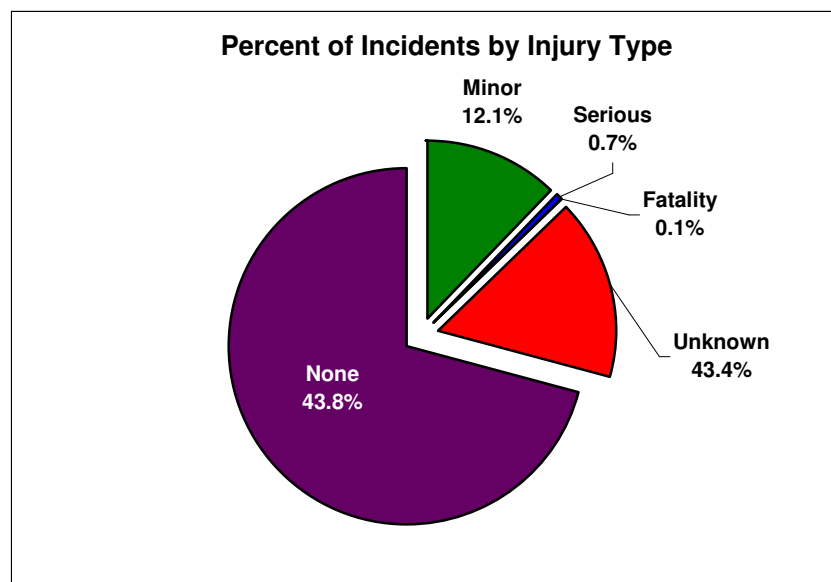
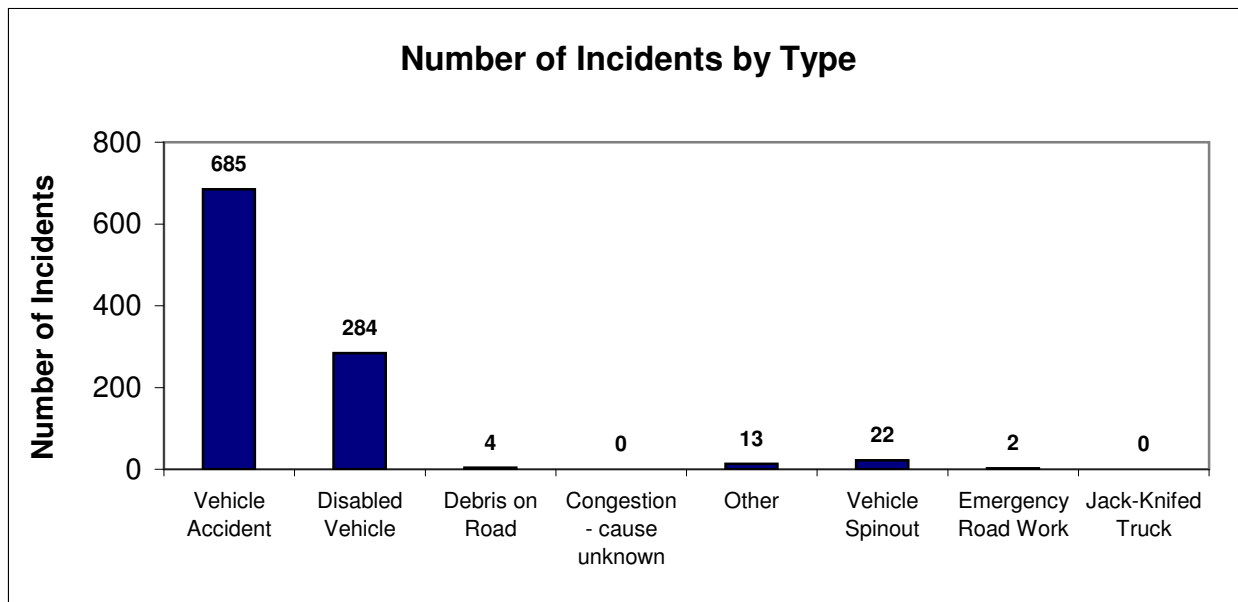
Note: For travel lanes blocked terminology, "1/4" indicates 1 out of 4 lanes blocked

4. Incidents by Type

Incident Type	No. of Incidents
Vehicle Accident	685
Disabled Vehicle	284
Debris on Road	4
Congestion - cause unknown	0
Other	13
Vehicle Spinout	22
Emergency Road Work	2
Jack-Knifed Truck	0
<i>Total Number of Incidents</i>	<i>1010</i>

5. Incidents by Injury Type

Injury Type	No. of Incidents
Minor	127
Serious	7
Fatality	1
Unknown	171
None	741
<i>Total</i>	<i>1047</i>



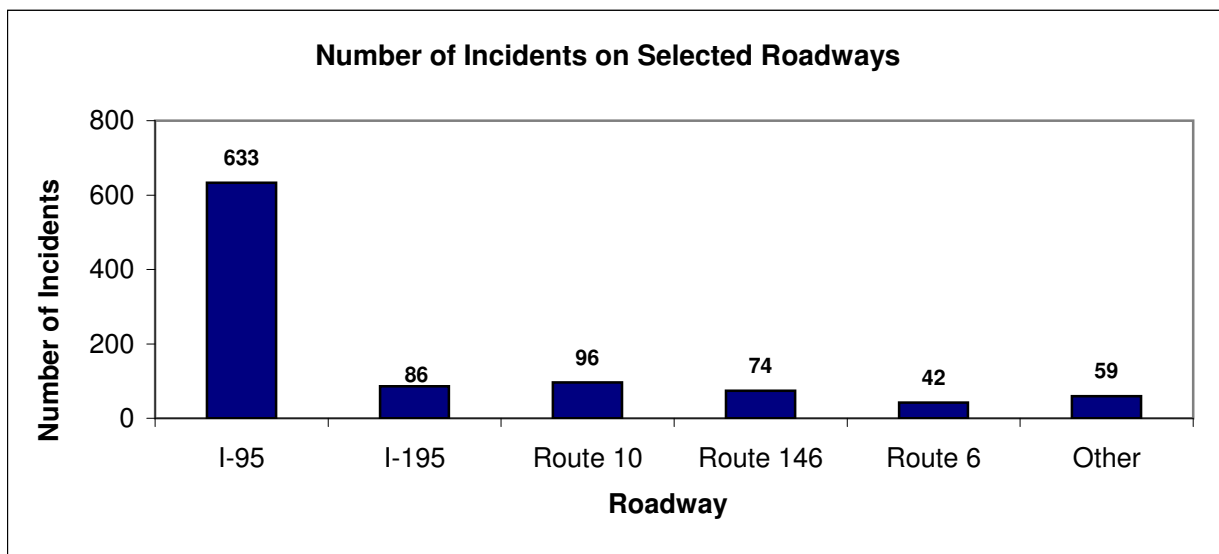
6. Incidents by Pavement and Weather Conditions

Pavement Condition	No. of Incidents
Dry	745
Wet	224
Icy	26
Snow-Covered	52
Flooded	0
Other	0
<i>Total</i>	<i>1047</i>
Precipitation	
None	821
Light-moderate rain falling	135
Heavy rain falling	33
Light-moderate sleet falling	2
Heavy sleet falling	3
Light-moderate snow falling	41
Heavy snow falling	12
<i>Total</i>	<i>1047</i>
Wind	
Calm to Moderate	987
Moderate to Strong	58
Gusts over 50 mph	0
Gusts over 75 mph	0
Hurricane	0
Other	1
N/A	1
<i>Total</i>	<i>1047</i>
Visibility	
Clear	865
Light fog	14
Dense fog	2
Reduced- rain	102
Reduced-snow	52
Poor-heavy rain/sleet	3
Poor-heavy snow	7
Reduced-smoke	0
Other	1
N/A	1
<i>Total</i>	<i>1047</i>

7. Incidents Detected by Primary Notifier on Selected Roadways

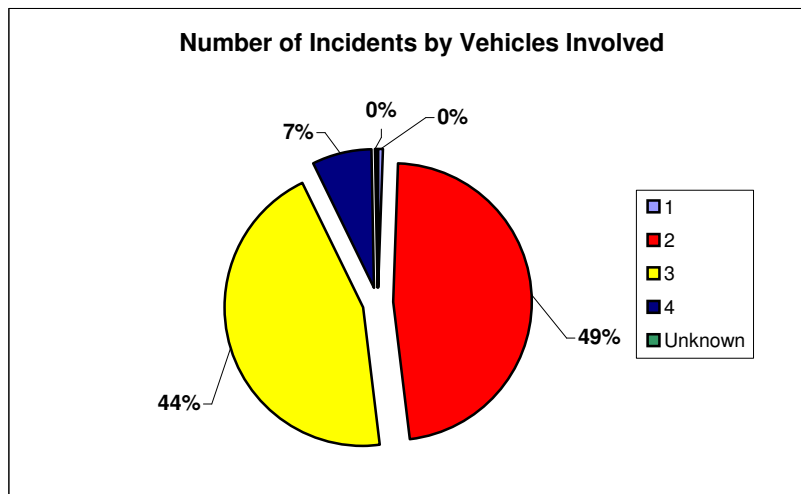
Roadway	Primary Notifier	No. of Incidents
I-195	TMC Operator	31
	State Police Scanner	47
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	8
	Total	86
I-95	TMC Operator	251
	State Police Scanner	315
	Local Fire Department	0
	Rhode Watcher	1
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	66
	Total	633
I-295	TMC Operator	7
	State Police Scanner	41
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	9
	Total	57

Roadway	Primary Notifier	No. of Incidents
Route 10	TMC Operator	30
	State Police Scanner	56
	Local Fire Department	0
	Rhode Watcher	1
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	9
	Total	96
Route 146	TMC Operator	17
	State Police Scanner	37
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	20
	Total	74
Route 6	TMC Operator	12
	State Police Scanner	22
	Local Fire Department	0
	Rhode Watcher	1
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	7
	Total	42



8. Incidents by Number of Vehicles Involved

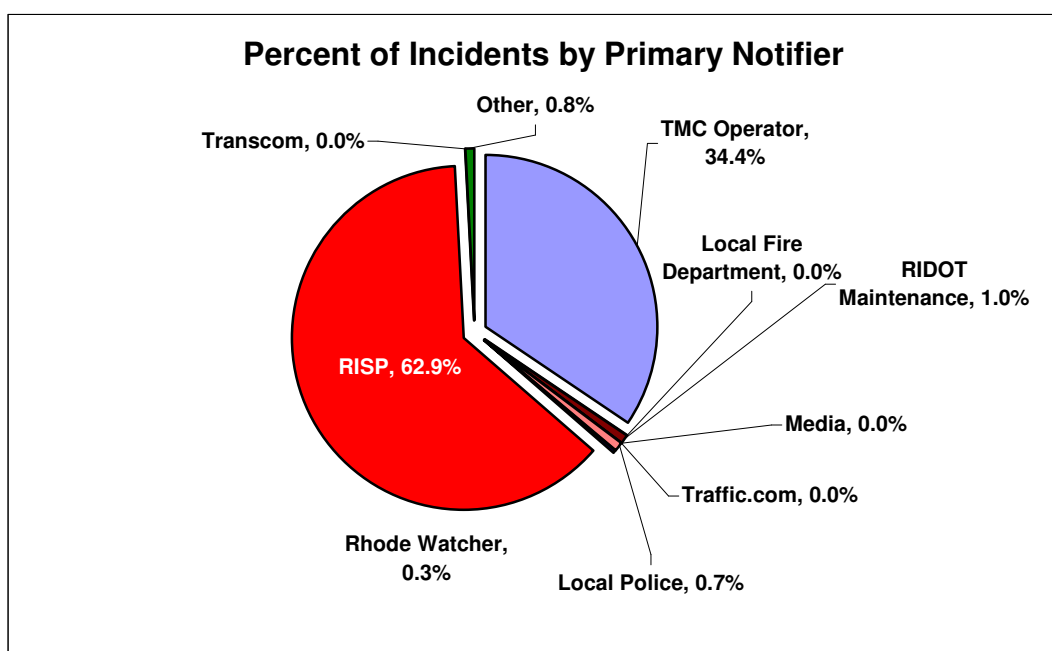
No. of Vehicles Involved	No. of Incidents
1	5
2	486
3	453
4	71
5	20
6	8
7	0
8	0
9	0
10+	0
Unknown	4
Total Incidents	1047

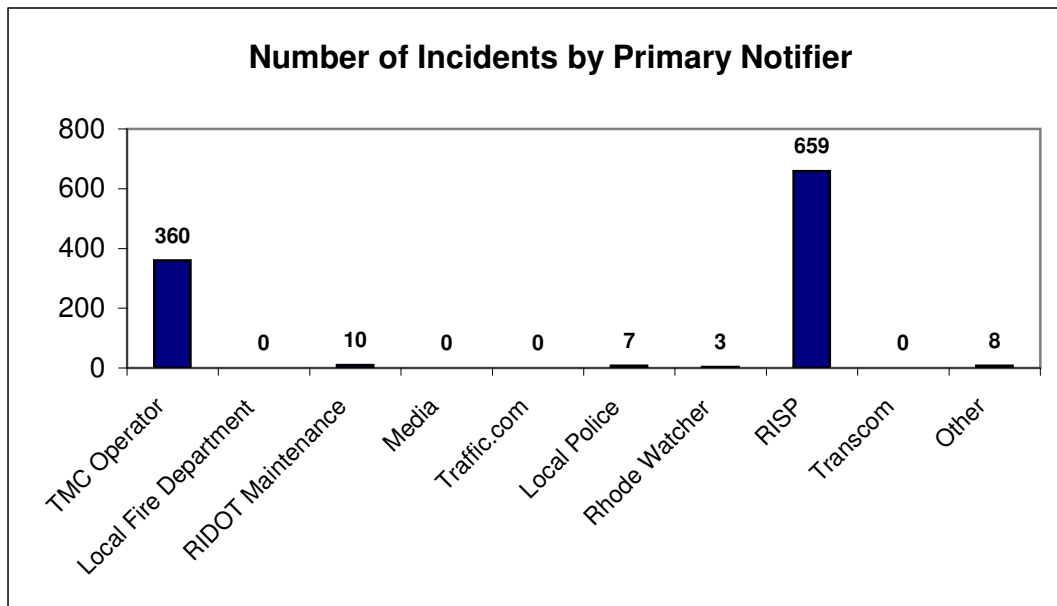


9. Incident Notification

Primary Notifier*	No. of Incidents
TMC Operator	360
Local Fire Department	0
RIDOT Maintenance	10
Media	0
Traffic.com	0
Local Police	7
Rhode Watcher	3
RISP	659
Transcom	0
Other	8
Total	1047

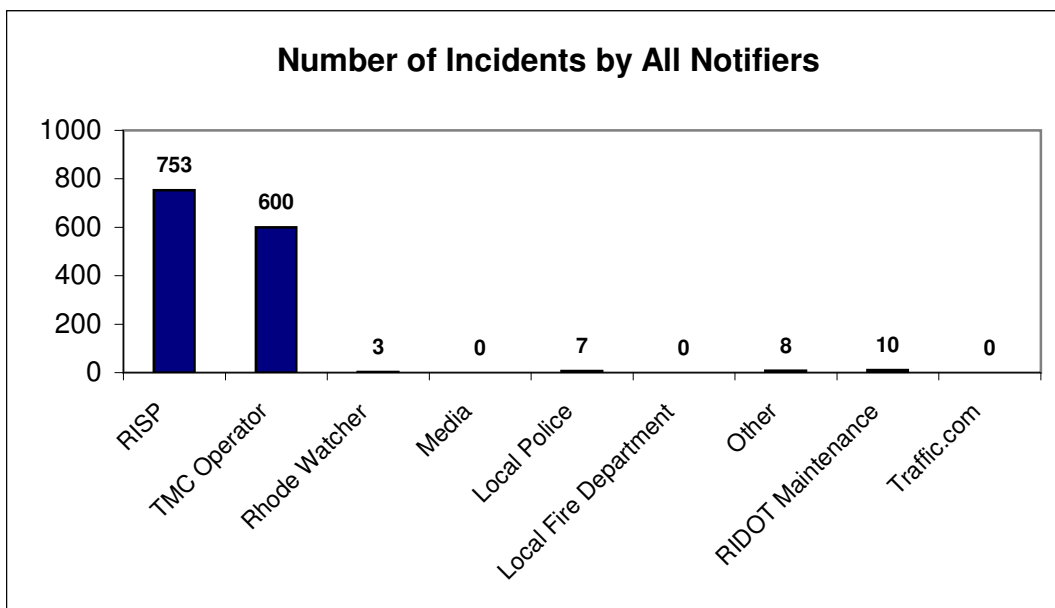
*First notifier of the incident to TMC





Notifier	No. of Incidents
RISP	753
TMC Operator	600
Rhode Watcher	3
Media	0
Local Police	7
Local Fire Department	0
Other	8
RIDOT Maintenance	10
Traffic.com	0
Transcom	0

Note: Primary notifier indicates the first notifier of the incident to the TMC. Additional notifiers are also logged, and are represented in the statistics for "all notifiers".



10. Incident Response

On-Scene Responding Agency	No. of Incidents	Percent of Total Incidents
State Police	914	87.30%
Tow	404	38.59%
Local Fire Department	203	19.39%
EMS	195	18.62%
Local Police	53	5.06%
Service Patrol	11	1.05%
Mass Highway	0	0.00%
DOT	15	1.43%
Hazmat	0	0.00%
DEM	0	0.00%
Connecticut DOT	0	0.00%
Construction	0	0.00%
Coast Guard	0	0.00%
Department of Health	0	0.00%
K-9	0	0.00%
RIPTA	0	0.00%

	# of Incidents
# Involved Equipment(HAR,VMS or CCVE)	365
# of VMS Messages	73
# of DMS Messages	325
# of HAR Messages	123
# of Web Messages	935

Note: Numbers and percentages in upper table indicate how many of the incidents during the month were responded to by the agency indicated. Note that multiple agencies may respond to an incident, so percentages do not add up to 100%.

